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EREP BIMONTHLY PROGRESS REPORT - NUMBER 11

Period: March 16, 1974 - May 15, 1974

INVENTORY OF FOREST AND RANGELAND RESOURCES, INCLUDING FOREST STRESS

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Report Written: May 13, 1974

# INVENTORY OF FOREST AND RANGELAND RESOURCES, INCLUDING FOREST STRESS

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### A. Overall Status - all sites

1. We are combining two months of information mainly because we have received almost no relevant new data since our last report.

We did receive Mission 260 RB-57 imagery of the Black Hills site in this period but it cannot be used because the trees and ground are completely snow covered. All spectral reflectance differences of healthy and dying trees are lost because of the snow.

2. We have selected an alternate forest inventory site east of Atlanta, Georgia which we will refer to as Augusta, Georgia, Alternate Test Site 177512. The selected site is based on visual inspection made by W. J. Greentree during his visit to J. S. C. of S-190A photos taken by SL-2, 3, and 4. Complete coverage of the new site was obtained by S-190A and S-190B for both SL-3 and SL-4. We were notified by Harley Weyer, ERAP, that the RB-57 took high-flight coverage of this site on April 25, 1974. We have requested the SL-3 and SL-4 imagery needed and hope to receive the aircraft photography so that we can begin the forest inventory portion of the experiment.

3. No new data have been received by R. S. Driscoll. However, two color combined images were made at Berkeley of the Manitou test site (161313) from S-190A black and white transparencies which were far superior to the CIR-70 mm images. The combined images have been copied onto 8 X 10-inch color internegative film. Color transparencies and prints will be forwarded as soon as possible to Driscoll.

4. Interpretation of the SL-2 S-190A photographs from September 1973 has been completed by one man and will be systematically examined by two additional interpreters.

## B. Significant Results, Practical Applications, and Operational Problems

1. We cannot report on significant results or practical applications until we receive more of the EREP data. Our original Atlanta site has been moved to Augusta, Georgia in order to coincide with SL-3 and SL-4 coverage and RB-57 aircraft underflight data flown on April 25. We will need to receive both the Skylab images requested and aircraft photography before this part of the study can get underway.

The S-192 screening data for Colorado (site 161313) and South Dakota (191312) have been examined but we have been notified that we cannot expect to receive S-192 tapes until after July 1, 1974. Consequently, our processing subcontract with the University of Kansas and our in-house processing cannot begin until we receive the CCT's.

## C. Travel Plans - May 16 to June 15, 1974

No EREP related travel is planned for this period.